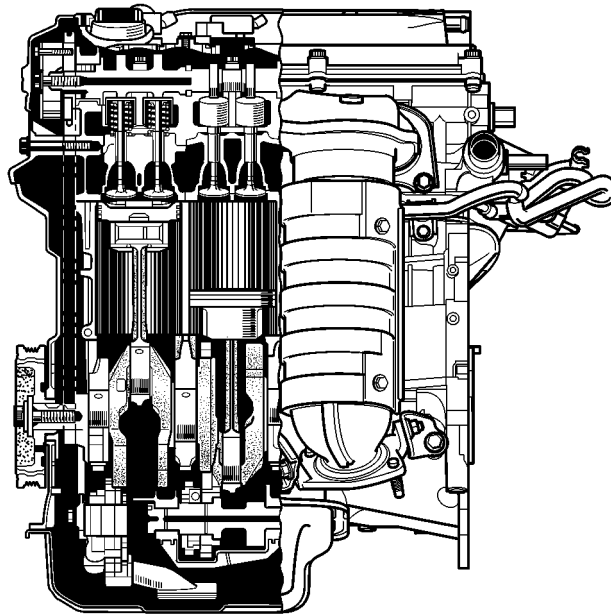


ENGINE

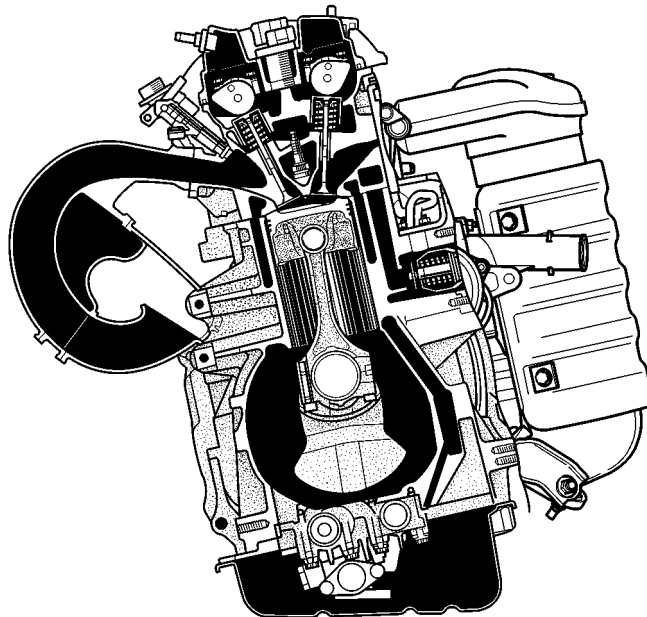
2AZ-FXE ENGINE

■ DESCRIPTION

- The '07 Camry Hybrid model uses the 2AZ-FXE engine that has been newly developed for hybrid system application. Based on the 2AZ-FE engine, the high-expansion ratio Atkinson cycle is used. It is an in-line 4-cylinder, 2.4-liter, 16-valve DOHC engine.
- This engine uses the VVT-i (Variable Valve Timing-intelligent) system, DIS (Direct Ignition System), ETCS-i (Electronic Throttle Control System-intelligent) and fuel vapor-containment system. These control functions achieve improved engine performance, fuel economy, and reduced exhaust emissions.



02HEG01TE



02HEG02TE

► Engine Specifications ◀

Model		'07 Camry Hybrid Model	'07 Camry (For California)	'07 Camry (Except California)
Engine Type		2AZ-FXE	2AZ-FE	←
No. of Cyls. & Arrangement		4-Cylinder, In-line	←	←
Valve Mechanism		16-Valve DOHC, Chain Drive (with VVT-i)	←	←
Combustion Chamber		Pentroof Type	←	←
Manifolds		Cross-Flow	←	←
Fuel System		SFI	←	←
Ignition System		DIS	←	←
Displacement	cm ³ (cu. in.)	2362 (144.2)	←	←
Bore x Stroke	mm (in.)	88.5 x 96.0 (3.48 x 3.78)	←	←
Compression Ratio		12.5 : 1	9.8 : 1	←
Max. Output (SAE-NET)*1		110 kW @ 6000 rpm (147HP @ 6000 rpm)	116 kW @ 6000 rpm (155HP @ 6000 rpm)	118 kW @ 6000 rpm (158HP @ 6000 rpm)
Max. Torque (SAE-NET)*1		187 N·m @ 4400 rpm (138 ft·lbf @ 4400 rpm)	214 N·m @ 4000 rpm (158 ft·lbf @ 4000 rpm)	218 N·m @ 4000 rpm (161 ft·lbf @ 4000 rpm)
Valve Timing	Intake	Open	0° ~ 30° BTDC	3° ~ 43° BTDC
		Close	100° ~ 70° ABDC	65° ~ 25° ABDC
	Exhaust	Open	45° BBDC	←
		Close	3° ATDC	←
Firing Order		1 - 3 - 4 - 2	←	←
Oil Grade		ILSAC	←	←
Octane Rating		87 or more	←	←
Emission Regulation		AT-PZEV (CARB*3)	Tier2 (EPA*4)	PZEV (CARB*3)
	Tailpipe	LEVII-SULEV, SFTP	Tier2-Bin3, SFTP	LEVII-SULEV, SFTP
	Evaporative	LEVII-Zero Evapo, ORVR	Tier2, ORVR	LEVII-Zero Evapo, ORVR
Engine Service Mass*2 (Reference)		126 (278)	130 (287)	←

*1: Maximum output and torque rating is determined by revised SAE J1394 standard.

*2: Weight shows the figure with the oil and engine coolant fully filled.

*3: CARB (California Air Resources Board)

*4: EPA (Environmental Protection Agency)

► Valve Timing ◀

 : Intake Valve Opening Angle

 : Exhaust Valve Opening Angle

